

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: LOUIS MYERS FISH & RICHARDSON P.C. 225 FRANKLIN STREET BOSTON MA 02110 RECEIVEI OCT 2 6 2001	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION			
FISH & RICHARDSON, BOSTON OFFICE	P.C. (PCT Rule 44.1)			
BOSTON OFFICE	Date of Mailing (day/month/year) 24 OCT 2001			
Applicant's or agent's file reference	~ 1 001 2001			
10275-094WO1	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No.	International filing date (day/month/year)			
PCT/US01/14408	04 MAY 2001			
Applicant GENZYME TRANSGENICS CORPORATION				
The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application, a notice of priority claim, must reach the International Bureau as provided in completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II. Name and mailing address of the ISA/US Authorized officer				
Commissioner of Patents and Trademarks Box PCT	QUANG NGUYEN, PH.D.			
Washington, D.C. 20231	Common Control of			
Facsimile No. (703) 305-3230	Telephone No. (703) 308-0196			

(703) 308-0196

Form PCT/ISA/220 (July 1998) ★

(See notes on accompanying sheet)



From the INTERNATIONAL SEARCHING AUTHORITY

To: LOUIS MYERS FISH & RICHARDSON P.C. 225 FRANKLIN STREET BOSTON MA 02110	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)			
	Date of Mailing (day/month/year) 24 OCT 2001			
Applicant's or agent's file reference 10275-094WO1	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US01/14408	International filing date (day/month/year) 04 MAY 2001			
Applicant GENZYME TRANSGENICS CORPORATION				
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 4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later) Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II. 				
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Pacsimile No. (703) 305-3230	Authorized officer QUANG NGUYEN, PH.D. Telephone No. (703) 308-0196			



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

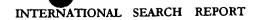
International application No. International filting date (day/month/year) (Earliest) Priority Date (day/month/year) O5 MAY 2000	Applicant's or agent's file reference 10275-094WO1	FOR FURTHER see Notification of ACTION (Form PCT/ISA/2	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
Applicant GENZYME TRANSGENICS CORPORATION This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of	International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of	PCT/US01/14408					
This international search report consists of a total of sheets. X It is also accompanied by a copy of each prior art document cited in this report. 3. Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was flied, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as flied has been furnished. Certain claims were found unsearchable (See Box I). Unity of invention is lacking (See Box II). With regard to the cide, X the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one morth from the date of mailing of this international search report, submit comments to this Authority. None of the figures.		PRATION				
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as suggested by the applicant.	Box III. The applicant may, w	vithin one month from the date of mailing of the	as it appears in his international			
None of the figures.	6. The figure of the drawings to be put	olished with the abstract is Figure No.	_			
because the applicant failed to suggest a figure.	as suggested by the applicant.		None of the figures:			
	because the applicant failed to	suggest a figure.	Indite of the figures.			
because this figure better characterizes the invention.	because this figure better char	racterizes the invention.				

INTERNATIONAL SEARCH REPORT



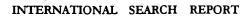
International application No. PCT/US01/14408

A. CLAS	SIFICATION OF SUBJECT MATTER		
IPC(7) :	Please See Extra Sheet.		
US CL :	Please See Extra Sheet. International Patent Classification (IPC) or to both n	ational classification and IPC	
	DS SEARCHED		
	ocumentation searched (classification system followed	by classification symbols)	
	514/2, 8; 800/4, 7, 8, 13, 14, 15, 16, 17, 18, 21, 2		5/23.1, 23.4
Documentati	ion searched other than minimum documentation to the e	xtent that such documents are included in	the fields searched
		,	
Electronic d	ata base consulted during the international search (name	ne of data base and, where practicable,	search terms used)
	ALOG, MEDLINE, BIOSIS, EMBASE		
Search	h tems: decorin, PGII, PG-40, transgenic, animal, m	ammal, mouse, plant	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
X	US 5,654,270 A (RUOSLAHTI et al.))5 August 1997, col. 3, lines	1-9,20-24
	21-31; col. 9, lines 13-23; col. 12, lines	46-55; col. 15, lines 54-57;	
	examples I and VI.	•	
1	THE STATE OF THE S	04 A ==:1 2000 and the entire	1-6,8,20,22 -23
X	US 6,046,162 A (RUOSLAHTI et al.)	s and col 1 lines 30-36	1-0,0,20,22 -23
	article, especially example I, the claims	s and cor. 1, mics 30-30.	
Α	WALL, R.J. Transgenic livestock: P.	rogress and prospects for the	10-19
I A	future. Theriogenology. June 1996. V	701. 45, pages 57-68, see the	
	entire document.		
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	·		
X Purt	her documents are listed in the continuation of Box C	. See patent family annex.	
• s	pecial categories of cited documents:	"T" later document published after the indate and not in conflict with the ap	nternational filing date or priority
-A- d	ocument defining the general state of the art which is not considered to be of particular relevance	the principle or theory underlying t	he invention
	arlier document published on or after the international filing date	"X" document of particular relevance: considered novel or cannot be consi	the claimed invention cannot be dered to involve an inventive step
l	ocument which may throw doubts on priority claim(s) or which is ited to establish the publication date of another citation or other	when the document is taken alone	
57	pecial reason (as specified)	"Y" document of particular relevance; considered to involve an inventi- combined with one or more other st	ve step when the document is
	ocument referring to an oral disclosure, use, exhibition or other leans	being obvious to a person skilled in	the art
ene d	ocument published prior to the international filing date but later than ne priority date claimed	*& document member of the same pate	ent family
	Date of the actual completion of the international search Date of mailing of the international search report		
20 JUNE	E 2001	24 OC	T 2001
Name and	mailing address of the ISA/US	Authorized officer	200/h
Commissi Box PCT	oner of Patents and Trademarks	QUANG NGUYEN, PH.D.	MAKIL
Washingto	on, D.C. 20231	Telephone No. (703) 308-0196	
Facsimile	NO. (103) 303-3230	(10) 000	



International application No. PCT/US01/14408

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
4	MULLINS et al. Perspectives Series: Molecular medicine in genetically engineered animals. J. Clin. Invest. December 1996. Vol. 98. No. 11. pages S37-S40, see the entire document.	10-19
		,
		·



International application No. PCT/US01/14408

A. CLASSIFICATION OF S IPC (7):	UBJECT MATTER:					
A61K 38/00, 38/16; A01K 6	7/00, 67/027; C12P 21	/00; C12N 15/0	0, 15/63, 15	/82; C07H 21/0	04;	
A. CLASSIFICATION OF S US CL :	UBJECT MATTER:	•				
514/2, 8; 800/4, 7, 8, 13, 14	4, 15, 16, 17, 18, 21,	25; 435/320.1,	455, 461, 4	68, 470; 536/23	.1, 23.4	
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NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter II.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be sound, however, that the amendments will be considered as having been received on time if they are secrived by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate; in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.